A GRAPHICAL ANALYSIS OF 'O' AND 'B' TYPE STARS

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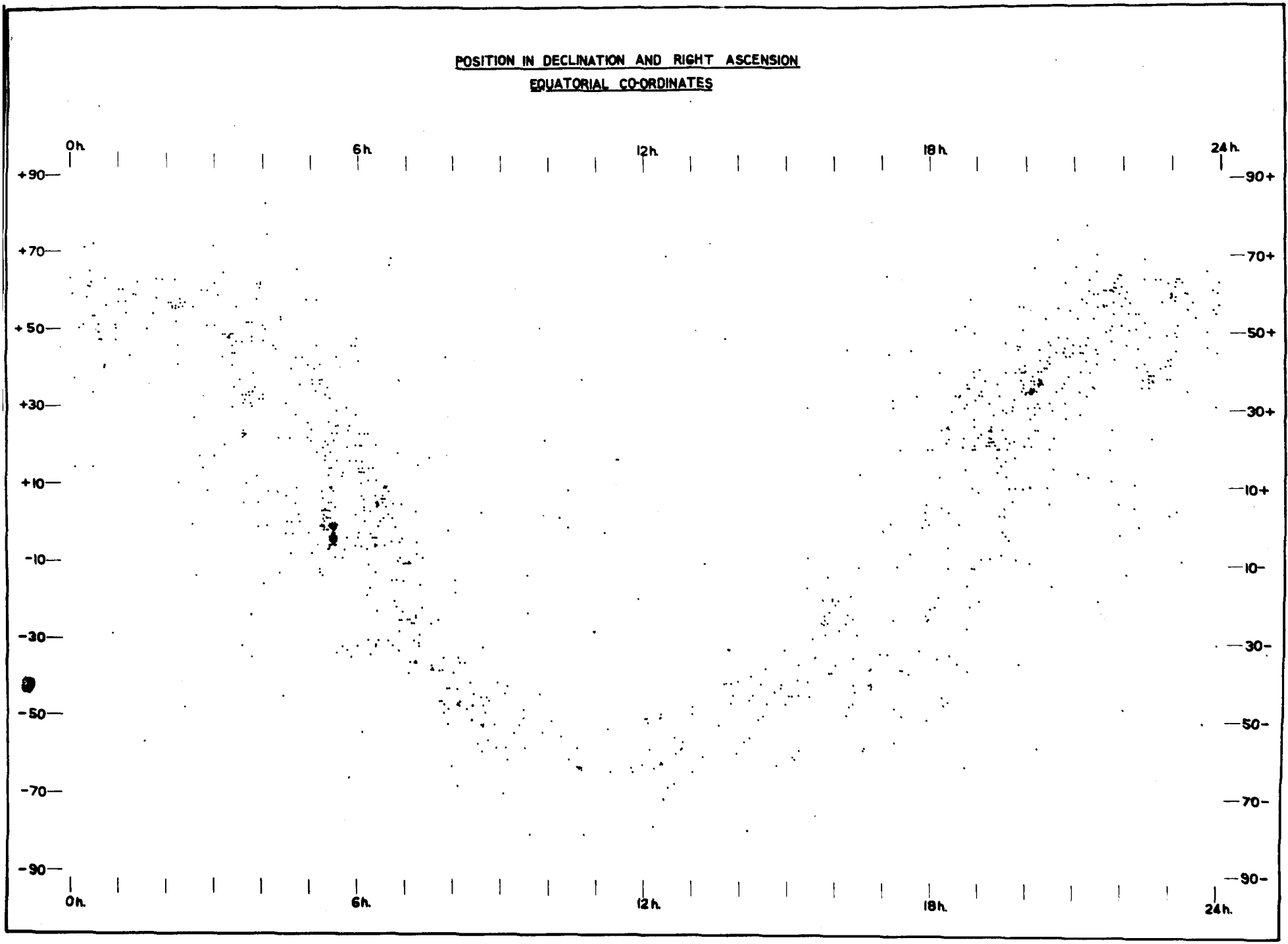
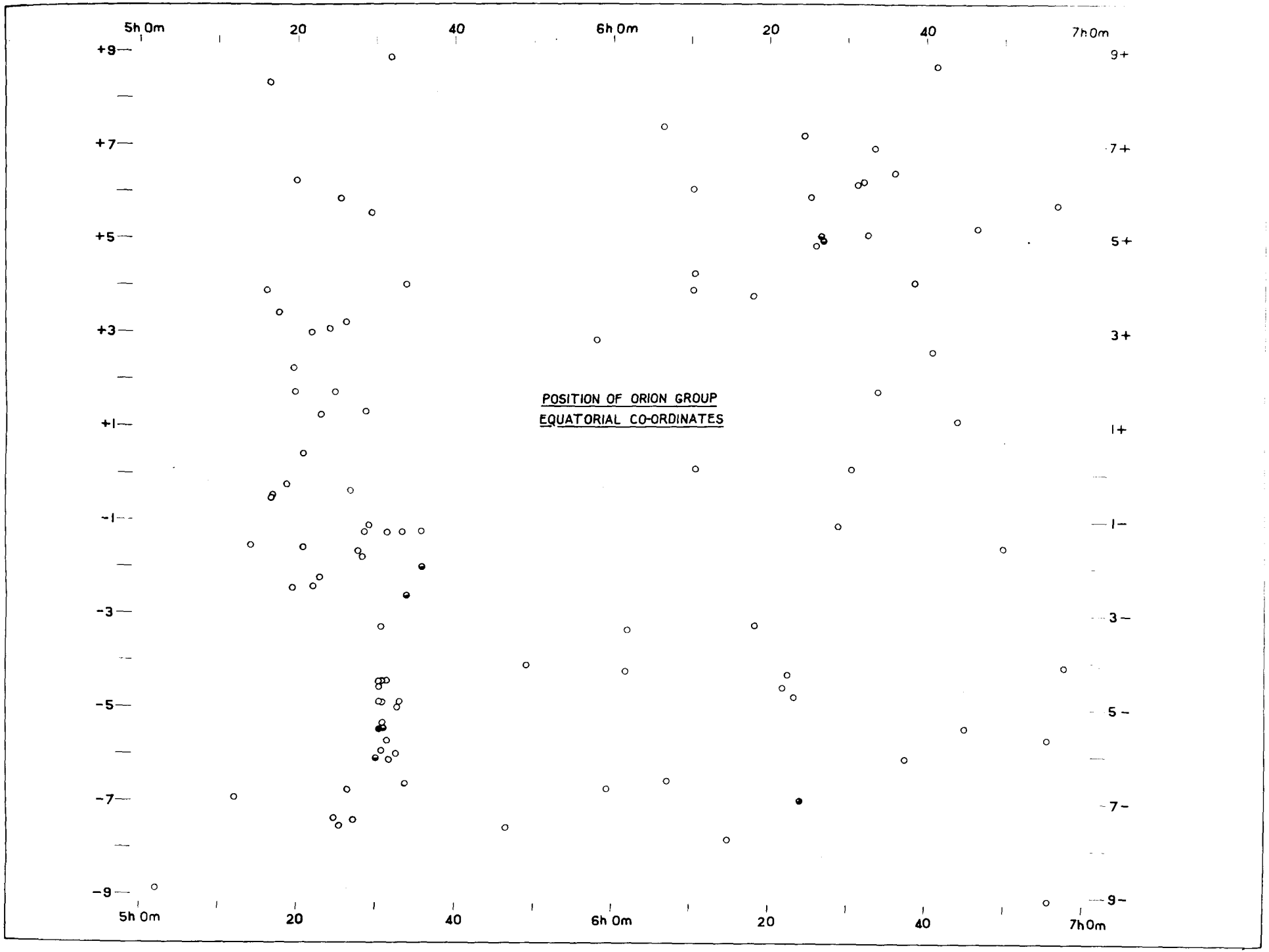
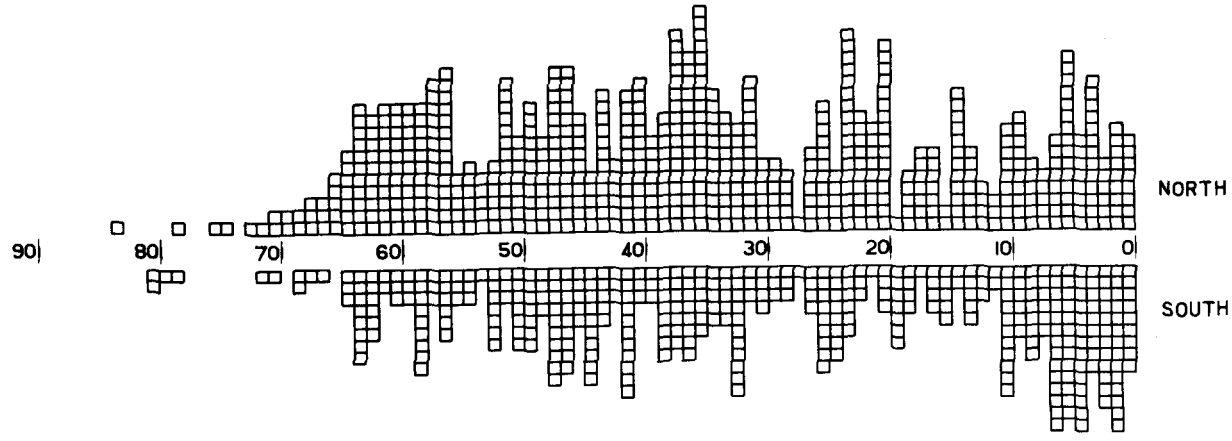
An analysis of data contained in
Volume V. Number 2 of the
Publications of the Dominion Astrophysical Observatory

"A Catalogue of the Radial Velocities of 'O' and 'B' Type Stars"
by J.S.Plaskett and J.A.Pearce

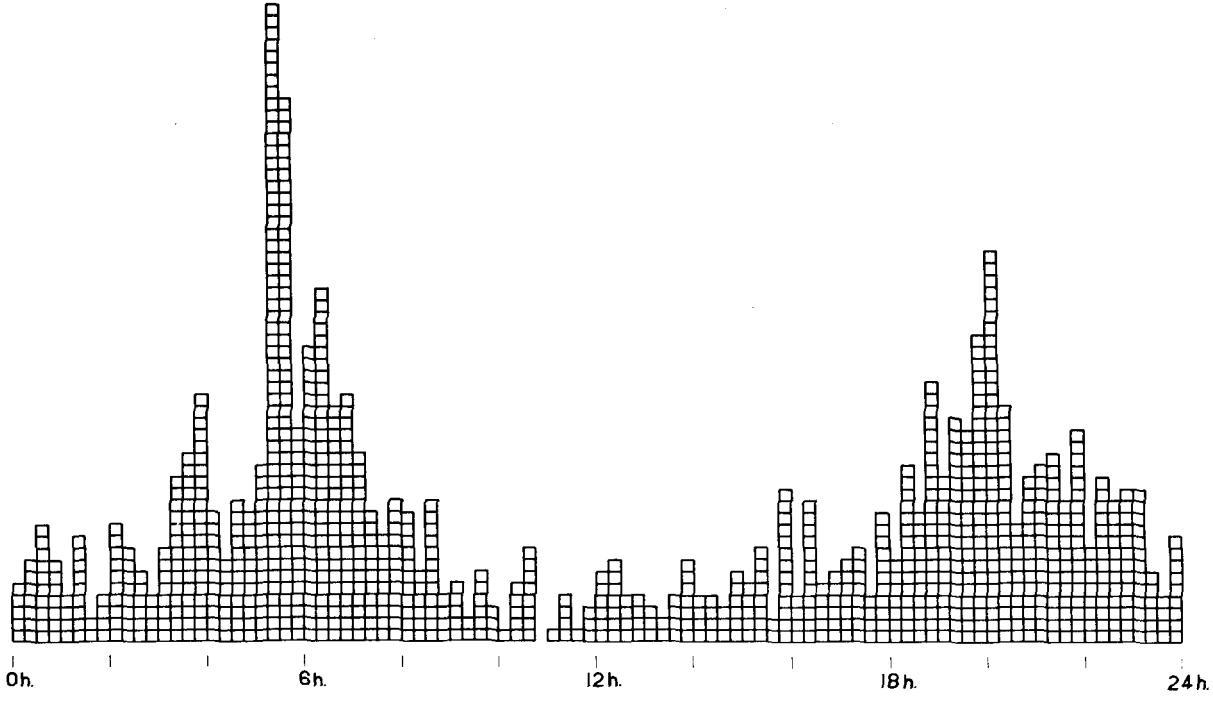
R. S. Farmer

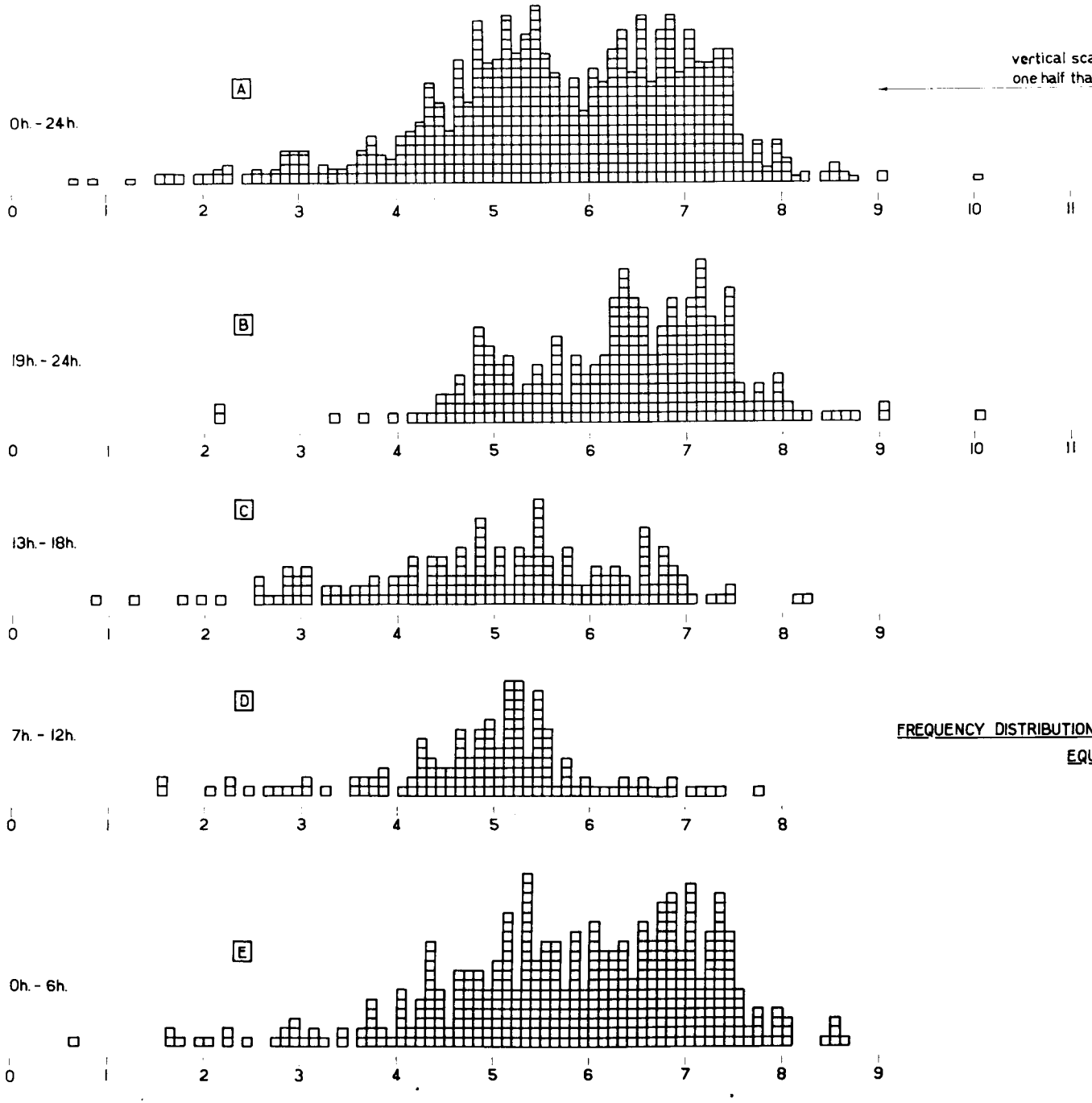

POSITION IN DECLINATION AND RIGHT ASCENSION
EQUATORIAL CO-ORDINATES
0h.
6h.
12h.
18h.
24h.
+90
+70
+50
+30
+10
-10
-30
-50
-70
-90


5h 0m
20
40
6h 0m
20
40
7h 0m
+9
+7
+5
+3
+1
-1
-3
-5
-7
-9
POSITION OF ORION GROUP
EQUATORIAL CO-ORDINATES

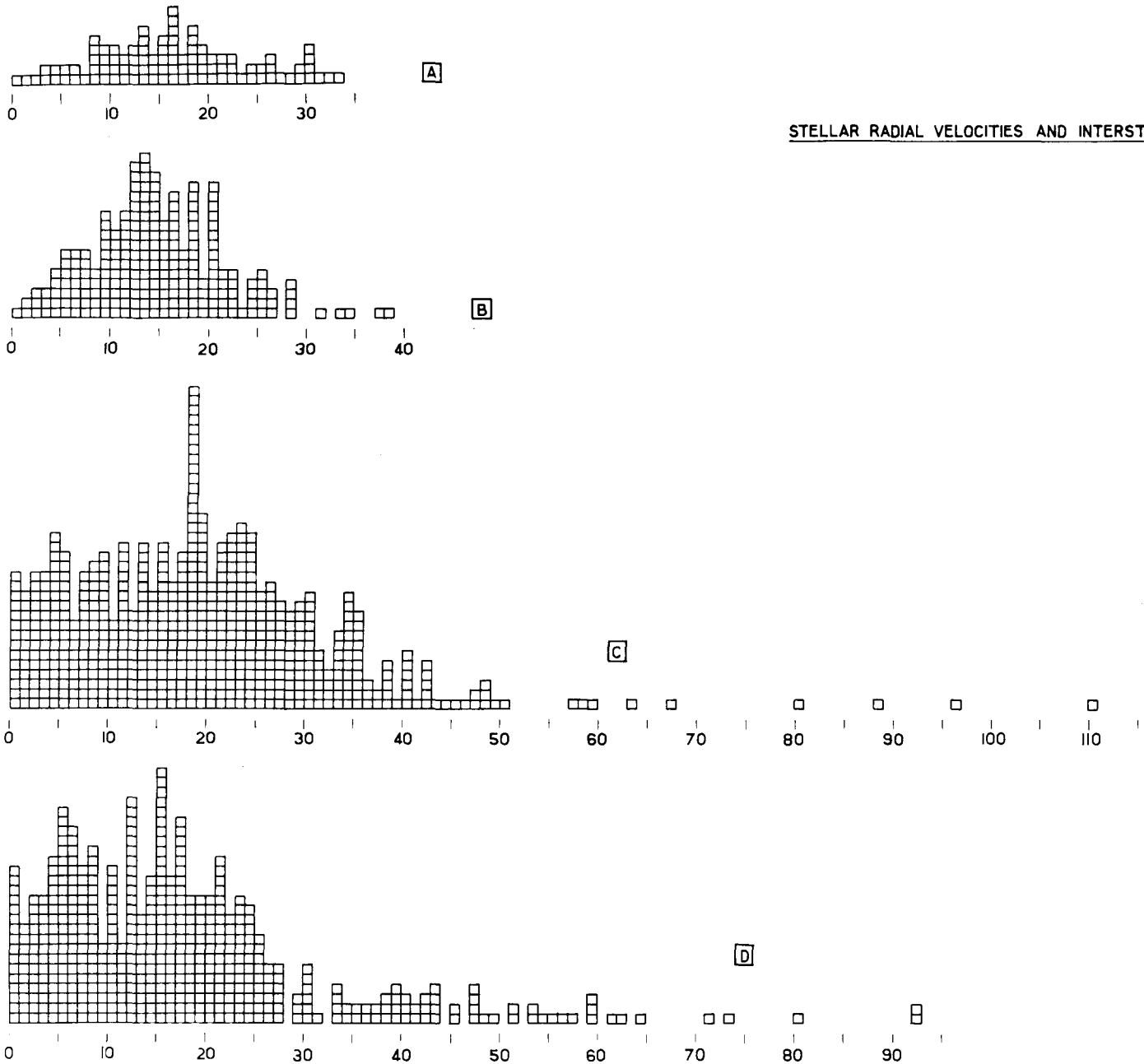


DISTRIBUTION IN DECLINATION AND RIGHT ASCENSION
EQUATORIAL CO-ORDINATES

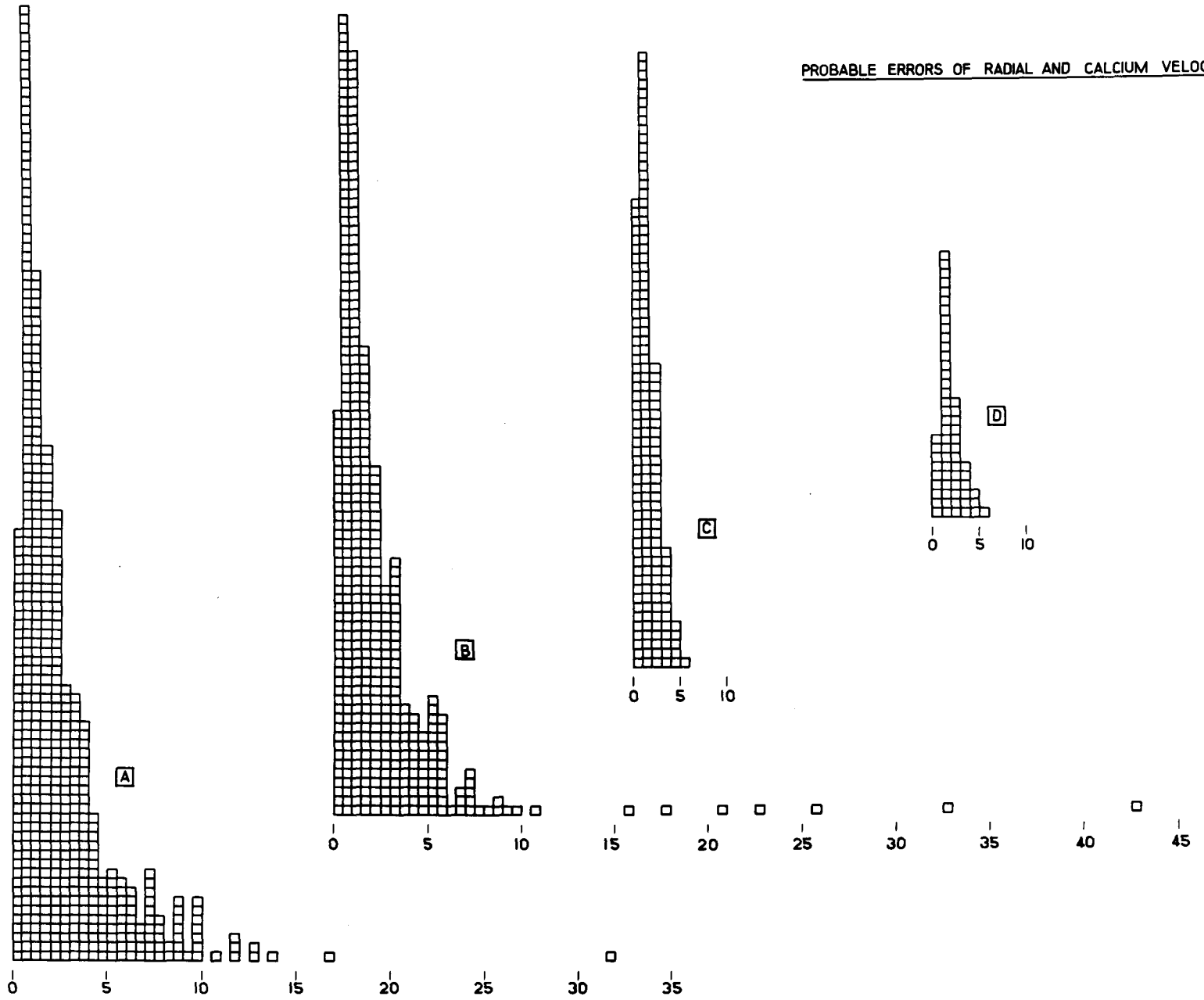


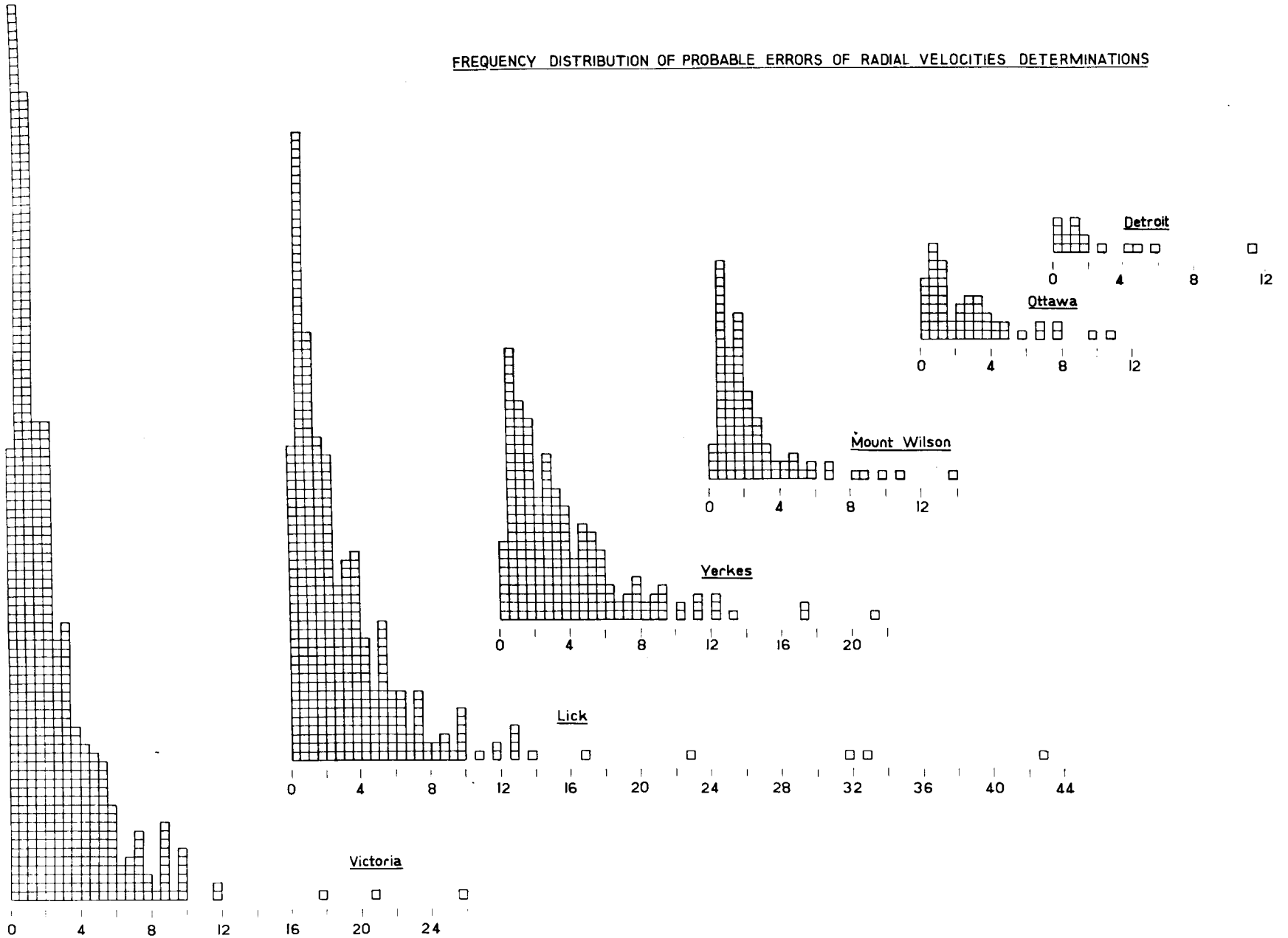


FREQUENCY DISTRIBUTION OF MAGNITUDES IN RIGHT ASCENSION EQUATORIAL CO-ORDINATES



STELLAR RADIAL VELOCITIES AND INTERSTELLAR CALCIUM VELOCITIES


PROBABLE ERRORS OF RADIAL AND CALCIUM VELOCITIES
A
0 5 10 15 20 25 30 35
B
0 5 10 15 20 25 30 35 40 45
C
0 5 10
D
0 5 10


FREQUENCY DISTRIBUTION OF PROBABLE ERRORS OF RADIAL VELOCITIES DETERMINATIONS
Detroit
0 4 8 12
Ottawa
0 4 8 12
Mount Wilson
0 4 8 12
Yerkes
0 4 8 12 16 20
Lick
0 4 8 12 16 20 24 28 32 36 40 44
Victoria
0 4 8 12 16 20 24

LIGHT CURVE OF T T AURIGAE

$5^h\ 2.^m8$ $+39^0\ 27'$ 8.0 – 9.4 mag.

Mount Wilson Contribution No. 419

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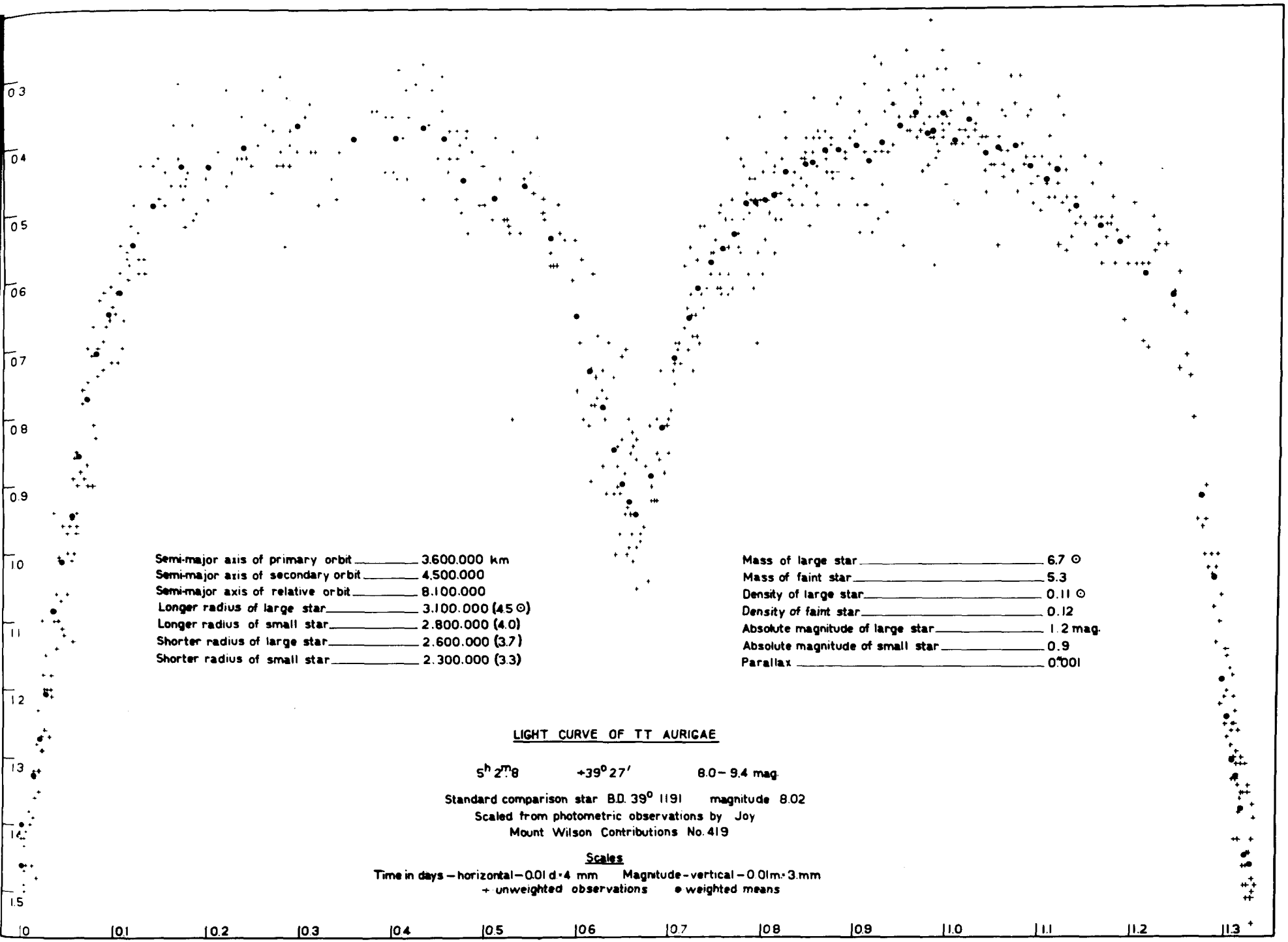
20 FOOT INTERFEROMETER BEAM

Mount Wilson Contribution No. 203



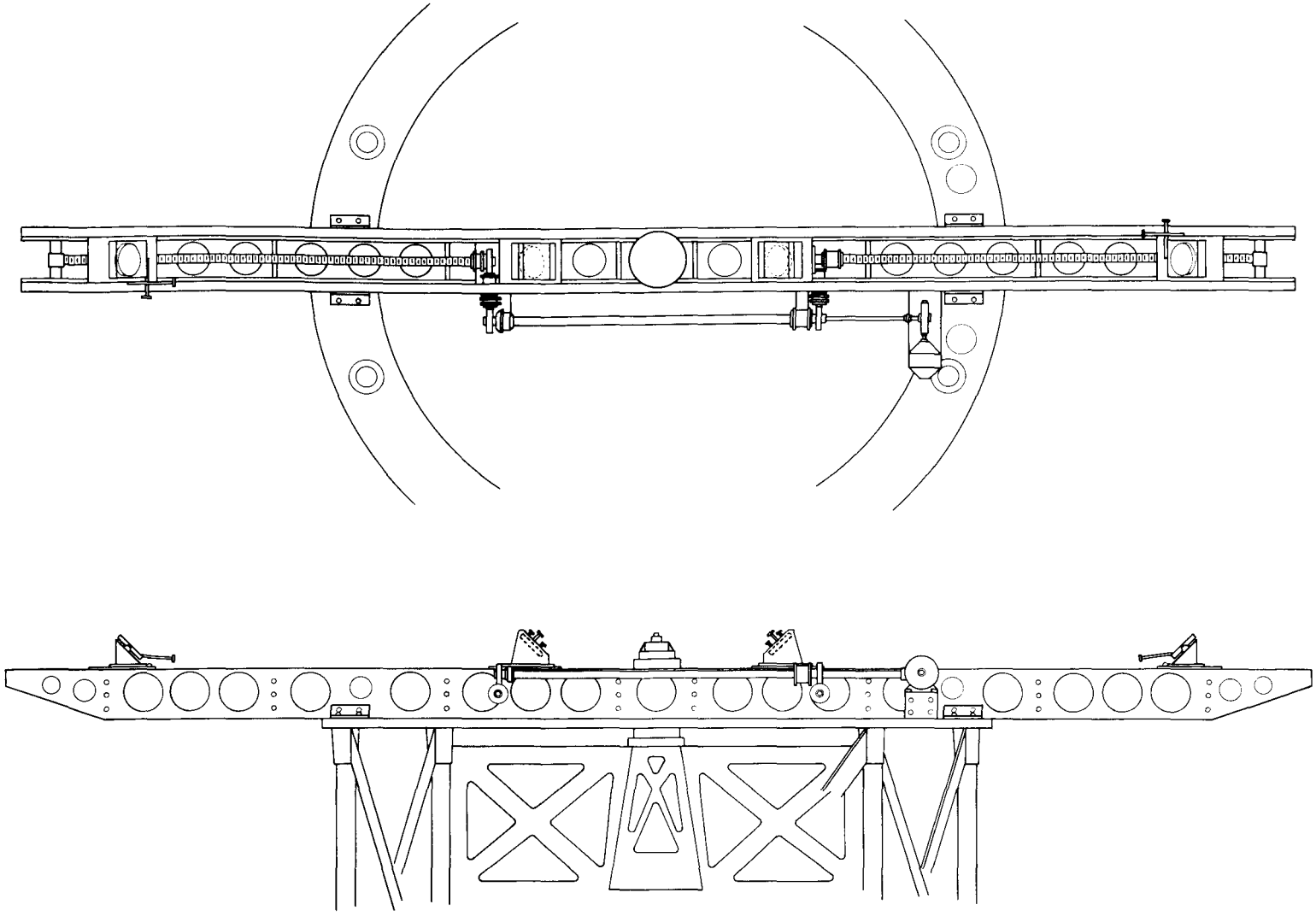
LIGHT CURVE OF TT AURIGAE

$5^h 2^m.8$ $+39^\circ 27'$ 8.0 – 9.4 mag.

Standard comparison star B.D. 39° 1191 magnitude 8.02
Scaled from photometric observations by Joy
Mount Wilson Contributions No. 419

Scales

Time in days – horizontal – 0.01 d = 4 mm Magnitude – vertical – 0.01m = 3.mm
+ unweighted observations • weighted means



20 FOOT INTERFEROMETER BEAM

Contributions from Mount Wilson Observatory
Number 203

GALACTIC CO-ORDINATES